

WHAT IS CLAIMED IS:

1. An elevator interlock apparatus comprising:
  - a catch disposed on a landing entrance;
  - a latch disposed on a landing door so as to engage with the catch and prevent movement of the landing door in a door opening direction when the landing door is in a fully-closed state; and
  - a release detector for detecting whether or not the latch is in a position engaged with the catch by detecting a change in a magnetic field without contacting the latch.
2. The elevator interlock apparatus according to Claim 1, wherein:
  - a detected portion constituted by a magnet is disposed on the latch; and
  - the release detector has a detecting portion composed of an electrically-conductive material facing the detected portion and detects the change in the magnetic field by means of an electric current generated in the detecting portion.
3. The elevator interlock apparatus according to Claim 1, further comprising a control portion that determines a state of the latch based on a signal from the release detector and controls motion of a car.

4. The elevator interlock apparatus according to Claim 3, further comprising:

a fully-closed-state detector for detecting whether the landing door is in the fully-closed state,

the control portion prohibiting motion of the car if it is determined that the landing door is in an open state and engagement between the catch and the latch has been released.

5. The elevator interlock apparatus according to Claim 4, wherein the control portion permits motion of the car if it is determined that the landing door is in a fully-closed state even if it is determined that engagement between the catch and the latch has been released.